

Solve each equation. Round your answers to the nearest ten-thousandth.

1) $3^b = 17$

2) $12^r = 13$

3) $9^n = 49$

4) $16^v = 67$

5) $3^a = 69$

6) $6^r = 51$

7) $6^n = 99$

8) $20^r = 56$

9) $5 \cdot 18^{6x} = 26$

10) $e^{x-1} - 5 = 5$

11) $9^{n+10} + 3 = 81$

12) $11^{n-8} - 5 = 54$.

$$13) 16^{n-7} + 5 = 24$$

$$14) 20^{-6n} + 6 = 55$$

$$15) 5 \cdot 6^{3m} = 20$$

$$16) 8^{-5a} - 5 = 53$$

$$17) -2 \cdot e^{-3n-8} - 3 = -45$$

$$18) 10 \cdot e^{2n-10} - 5 = 73$$

$$19) 10 \cdot e^{10-3m} - 8 = 23$$

$$20) -8 \cdot e^{5-6x} + 10 = -16$$

$$21) -5.1 \cdot e^{10n+2} + 7.9 = 2$$

$$22) 5.1 \cdot e^{10b+8} - 7 = 76.4$$

$$23) 3 \cdot e^{4-3x} + 1.6 = 45.6$$

$$24) -2 \cdot e^{9.4x-5} + 6 = -68.9$$